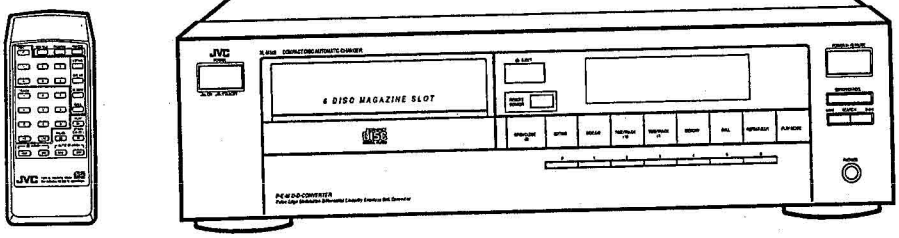
XL-M504BK
XL-M505TN

JVC

COMPACT DISC AUTOMATIC CHANGER

XL-M504BK

MODEL NO. **XL-M505TN**

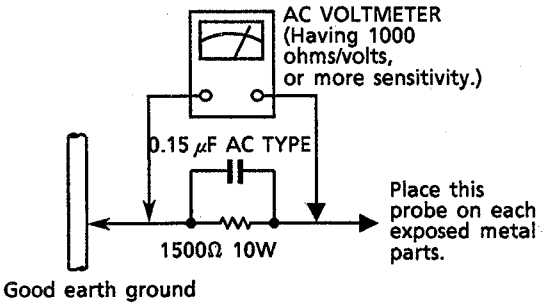


COMPU LINK
Component
COMPACT disc

Feb. 1991

Safety Precautions

1. The design of this product contains special hardware and many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Services should be performed by qualified personnel only.
2. Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacture of responsibility for personal injury or property damage resulting therefrom.
3. Many electrical and mechanical parts in the products have special safety-related characateristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the Parts List of Service Manual. Electrical components having such features are identified by shading on the schematics and by (⚠) on the Parts List in the Service Manual. The use of a substitute repalcement which does not have the same safety characteristics as the recommended replacement parts shown in the Parts List of Service Manual may create shock, fire, or other hazards.
4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been retuned to normal, after re-assembling.
5. Leakage currnet check (Electrical shock hazard testing)
   After re-assembling the product, always perform and isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, contorl shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.
   Do not use a line isolation transformer during this check.
   - Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current from each exposed metal parts having a return path to the chassis, to a known good earth ground. Any leakage current must not exceed 0.5mA AC (r.m.s.).
   - Alternate check method
     Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having, 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500Ω 10 W resistor paralleled by a 0.15 μF AC-type capacitor between an exposed metal part and a known good earth ground.
     Measure the AC voltage across the resistor with the AC voltmeter.
     Move the resistor connection to each exposed metal parts, particularly any exposed metal part having a return path to the chassis, and meausre the AC voltage across the resistor.
     Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

1. This equipment has been designed and manufactured to meet international safety standards.
2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
3. Repairs must be made in accordance with the relevant safety standards.
4. It is essential that safety critical components are replaced by approved parts.
5. If mains voltage selector is provided, check setting for local voltage.

Important for Laser Products

1. CLASS 1 LASER PRODUCT
2. DANGER : Invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
3. CAUTION : There are no serviceable parts inside the Laser Unit. Do not disassemble the Laser Unit. Replace the complete Laser Unit if it malfunctions.
4. CAUTION : The compact disc player uses invisible laser radiation and is equipped with safety switches which prevent emission of radiation when the drawer is open and the safety interlocks have failed or are defeated. It is dangerous to defeat the safety switches.
5. CAUTION : If safety switches malfunction, the laser is able to function.
6. CAUTION : Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
7. CAUTION : The compact disc player provides a laser diode of wavelength 780-790nm and optical output power typical 3mW at the laser diode.

VARNING : Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen.

VARO : Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen.

ADVARSEL : Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

ADVARSEL : Usynlig laserstråling ved åpning, når sikkerhetsbryteren er avslott. unngå utsettelse for stråling.

REPRODUCTION AND POSITION OF LABELS

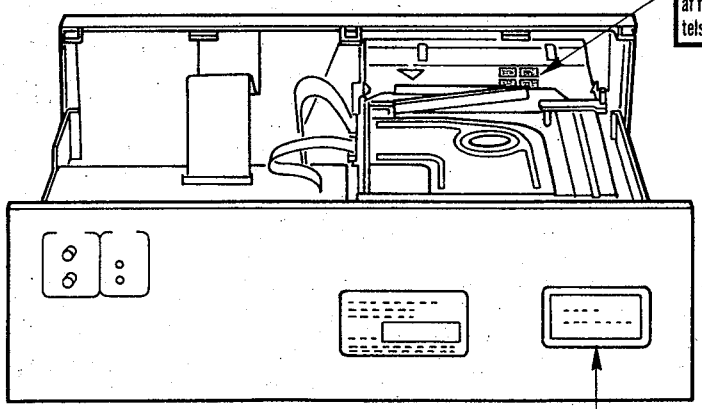
WARNING LABEL
(Except for the U.S.A.)

DANGER: Invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)

VARNING: Osynlig laserstrålning när denna del är öppnad och spärren är urkopplad. Betrakta ej strålen. (s)

ADVARSEL: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling. (d)

VARO: Avattaessa ja suojalukitus ohitettaessa olet alttiina näkymättömälle lasersäteilylle. Älä katso säteeseen. (f)



CLASS 1
LASER PRODUCT

CLASSIFICATION LABEL
(Except for the U.S.A. and Canada)

We would like to thank you for purchasing one of our JVC products.

Before connecting this unit to the wall socket please read the instructions carefully to ensure that you obtain the best possible performance.

If you have any questions, please consult your JVC dealer.

Notes:
- This instruction manual has been prepared for the five models, the model numbers of which are shown on the front cover page. Basic operation is virtually identical for the five models. The differences are described clearly in this manual.

Item / Model No.	Remote controller	DISC button	PHONES terminal	Colouring
XL-M505	○	[P.1~6]	○	Titanium
XL-M504	○	[P.1~6]	○	Black
XL-M405	×	[DISC]	○	Titanium
XL-M404	×	[DISC]	○	Black
XL-M77	×	[DISC]	×	Black

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PRECAUTIONS IN USE

Installation
— Select a location which is level, dry and neither too cold nor too hot (temperature range 5°C (41°F) and 35°C (95° F).
— Avoid dusty locations or any location subject to vibration.

Power
— When unplugging from the wall socket, always pull the plug body, never the power cable.

Preventing malfunctions
— Never insert anything other than a compact disc into any part of the CD player-changer.
— Placing anything other than a compact disc on the disc tray may cause the player to malfunction.
— If something goes wrong, turn the power off immediately. If the same problem reoccurs when the power is turned on once more, turn the power off again and consult your JVC dealer.

Volume settings
A CD player has almost zero background noise.
The technique of listening to the background level and then setting volume before the music starts, as used in analog turn-tables or tape decks, cannot be used. If you raise volume levels too high speaker damage may result.

Condensation
Since the CD player uses optical components, if either you move it from a cold location to a warm one, or you use it in a room subject to excessive humidity, equally if it is used in a room where a fire has just been lit, condensation could form on these optical components.
This may prevent the laser beam from being properly received and thus cause noise, even a malfunction.
If condensation has formed and the CD player-changer does not function correctly, we recommend that you leave it turned on for some hours.
If at the end of this time the CD player still does not function properly, please consult your JVC dealer.

Notes:
- When this equipment is placed near either a tuner or a radio receiver tuned to AM frequencies, interference may occur. If this has happened, we recommend either that you move this unit as far away from the tuner or receiver as possible, or you turn off the power to this unit, briefly.
- When carrying this unit, it is best if you avoid either tilting it or turning it upside-down.
  Where you cannot avoid doing so, please remove the magazine first.

COMPACT disc DIGITAL AUDIO

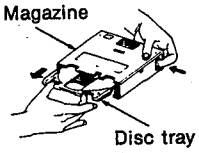
Only use compact-discs bearing this mark.

BEFORE USING FOR THE FIRST TIME

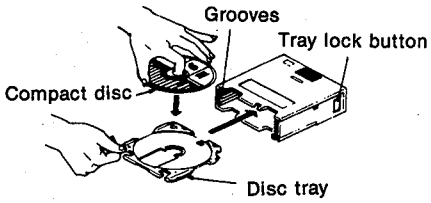
Installing the discs in the magazine
The magazine provided can hold up to six discs.

— How to install the discs.

1. The disc trays in the magazine are removable.
   Slide the disc tray out while simultaneously the tray lock button.



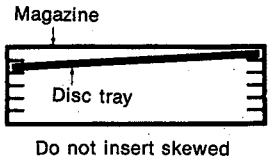
2. Locate a disc on the disc tray with its lable side up.



3. Line up the disc tray with the grooves in the magazine and push the disc tray right in.
   It is unnecessary to press the tray-lock button when inserting the disc tray.

- If you wish to use 8cm (3") CDs, please obtain the special magazine (XC-M73), designed for these.
- If you wish to use 12cm (5") CDs, please obtain the special magazine (XC-M75), designed for these.

Please notes:
- *Never bend the disc tray or force it into the magazine.*
  A disc tray inserted skewed may cause a malfunction.



Do not insert skewed

- *The openings in the disc trays are for the passage of the laser signal. These openings leave a part of the shiny surface of the disc exposed. Please take care not to touch this shiny surface.*
- *It is not possible to play from the disc if it is located upside-down.*
- *Never place a disc directly in the magazine without using the disc tray.*

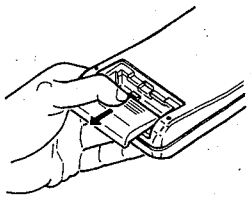
Installing batteries in the remote control unit
— Batteries
The remote control unit provided require two size AAA (1.5V) batteries
— Battery replacement
The service life of the batteries depends on the condition of use; the standard life is about one year.
When the batteries become weak, the effective distance of the remote control unit will become shorter. If this happens, replace the batteries with new ones.

Notes:
- The lower the temperature, the shorter the battery life.

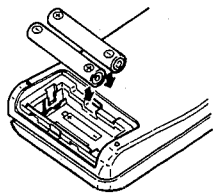
COMPU-LINK CONTROL SYSTEM

— How to install batteries
For XL-M505TN, XL-M504BK only

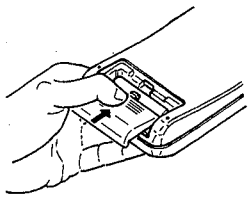
1. Remove the rear cover of the remote control unit by pressing down and simultaneously pulling it backwards.



2. Install batteries (AAA, R03, UM-4) Be sure batteries are installed with correct polarity, (+) and (−).



3. Slide the rear cover back.



Please notes:
Incorrect use of batteries can cause corrosion or damage. Note the following points to lengthen battery life.
1. Install batteries observing the correct polarity, (+) and (−).
2. Do not use new and old batteries simultaneously.
3. Batteries with similar shapes may have different voltage ratings. Be sure to use the correct batteries.
4. Remove batteries from the remote control unit if it will not be used for a long period of time.

COMPU LINK
Remote Control System
XL-M505TN/XL-M504BK
COMPU LINK
Control System
XL-M405TN/XL-M404BK/XL-M77BK

The COMPU LINK Remote Control System is a system of convenience, it utilises the COMPU LINK-1/SYNCHRO terminals, located on the rear panel.

This is a system of convenience, both originated and developed by JVC. The following is a brief explanation of its more important features:

Automatic Source Selection
When the remote cables provided are utilised to connect this unit to others which have SYNCHRO terminals incorporated, switching-in of each system component can be done via a single touch on the source selector button located on a JVC amplifier or receiver. When selection is carried out in this manner, the corresponding unit will automatically start operation.
On pressing the play button, the source selector for either an amplifier or a receiver will be automatically changed. When the new unit has been switched-in, the previously selected component will stop within five seconds.

Synchronized Recording
Synchronized recording refers to the process in which the cassette deck starts recording, synchronized with the CD player-changer.
Synchronized recording is carried out as follows:
1. Set the cassette deck to the REC/PAUSE mode, in accordance with its instructions.
2. When you want programmed recording, program the music to be selected in any order, as required.
3. Press the CD player-changer [PLAY (▶)] button. The cassette deck is now set in record mode and automatically synchronized with the CD player-changer for recording. Synchronized recording can now take place.

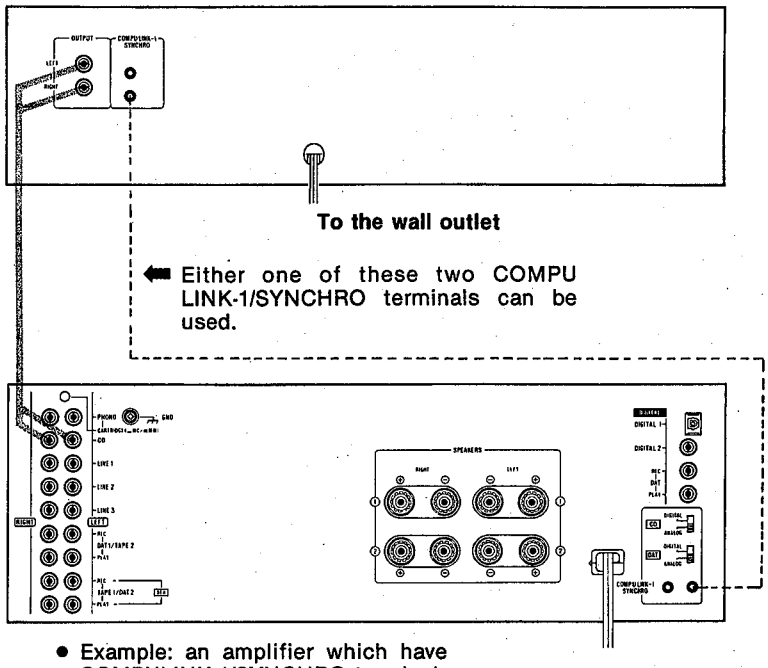
Notes:
- synchronized recording automatically halts when the CD player-changer stops playing.
- To deselect synchronized recording, press the [STOP (■)] button located on the CD player-changer or the cassette deck.
- When the REC/PAUSE mode has been set by pressing the [PAUSE (⏸)] button after pressing the [REC (○)] and [PLAY (▶)] buttons have been pressed simultaneously, synchronized recording is no longer possible. For details, please refer to the cassette deck instructions.
- Abnormal operation will result if the units power supply is interrupted while in operation. When this occurs, pressing the activation button once more will restart the unit.
- Please ensure that the SYNCHRO terminals located on this and other units are only connected using the special remote cables provided. Please read the instructions for each system component carefully.
- The source unit is locked to the CD setting during synchronized recording, so as to avoid any accidental halt to recording or switching over to another component. When you wish to switch another unit in, it is necessary to first deselect the synchronized recording mode.
- Synchronized recording is only possible when using JVC products incorporating SYNCHRO connectors. For further details, consult your JVC dealer.
- Only JVC cassette decks incorporating the synchronized recording feature can be used with this equipment in synchronized recording mode. Contact your JVC dealer for details.

CONNECTION DIAGRAM

— Do not connect to the wall outlet until all unit connections are made —

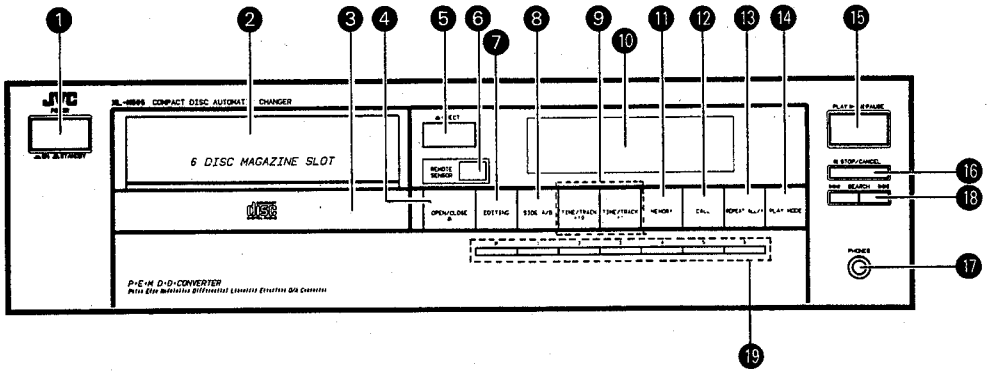
This diagram is given as an example.

Signal cable is intended for connection to the CD or AUX terminals.
Do not connect this cable to PHONO terminals of the amplifier.



- Example: an amplifier which have COMPULINK-1/SYNCHRO terminal.

DESCRIPTION AND FUNCTIONS



❶ **POWER (⎓ ON/ ⏾ STANDBY)**
Press this button to turn the power ON. Press again to turn the power off and activate the standby mode.
A small amount of power (2 watts) is consumed in the standby mode. To turn the power off completely, disconnect the power cord from the wall outlet.

❷ **Magazine slot**
Insert a six disc capacity magazine. Push the magazine in 'till it clicks into place.

❸ **SINGLE PLAY TRAY**
Use this tray for playing a single disc.

❹ **OPEN/CLOSE (⏏)**
Press this button for loading a disc into or taking a disc out of the SINGLE PLAY TRAY. If this button is depressed during the play of the single disc, the play will stop and the tray will move out. However, pushing this button does not affect the play of a disc in the 6 disc magazine.

Note:
- Do not hold the tray with your hand during open/close movement.

❺ **EJECT (⏏)**
Push this button to eject the magazine. If this button is pushed during play, play will automatically stop and the magazine will eject.

Note:
- This control does not function when the power is off.
  Damage could be caused if you put too much weight on the magazine as the EJECT button ejects it.
  Take care to avoid doing this.

❻ **REMOTE SENSOR**
XL-M505TN/XL-M504BK only

❼ **EDITING**
This button is used when you are edit recording.
Whenever this button is pressed "A. EDIT" and "P.EDIT" appear in turn.

❽ **SIDE (A/B)**
Use this button to select the tape side when programming for edit recording.

❾ **TIME/TRACK (+10, +1)**
These buttons are used to set the tape recording time and the track allowed for edit recording and the track allowed in program mode.

❿ **MULTI-MODE DISPLAY**
This shows both the programmed selections data and disc status information. For further details please refer to the "MULTI-MODE DISPLAY" section on page 7.

⓫ **MEMORY**
When in PROGRAM mode, press this button to programme the selections you require, while the selected discs and tracks numbers, in the MULTI-MODE DISPLAY are flashing on and off.

⓬ **CALL**
This button is used to check the programmed selections data. When pressed, this button displays the disc, track and step numbers, programmed earlier, in the MULTI-MODE DISPLAY, starting with the first selection programmed.

⓭ **REPEAT ALL/1**
When this button is pressed, the REPEAT indicator lights up. The repeat function has a change cycle that follows the sequence:
"Complete disc repeat" (all the selections on all 7 discs, or all the programmed selections on that discs)
"single tune repeat"
"release"

⓮ **PLAY MODE**
Press this button to select the play mode when stopped.
Press this button repeatedly to change the play mode functions, i.e. PROGRAM RANDOM & CONTINUE, in that sequence. These functions are displayed in the MULTI MODE DISPLAY.

⓯ **PLAY (▶)/PAUSE (⏸)**
Press this button to start playing either from the first selection or the programmed selection. Press this button once more to pause. To restart, press this button once again.

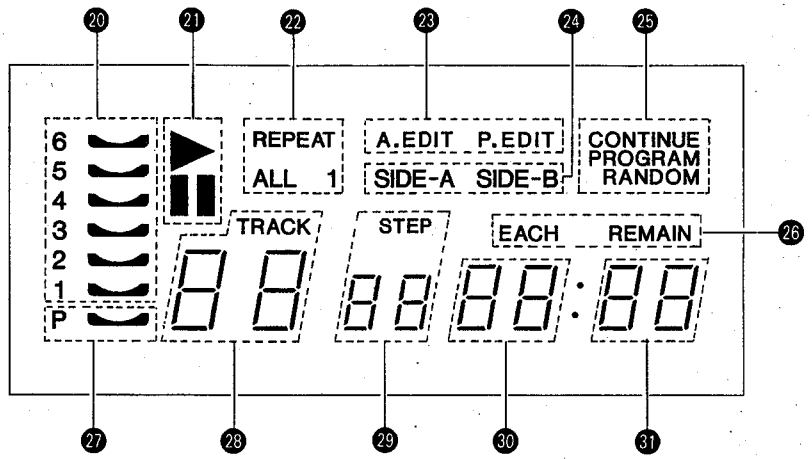
⓰ **STOP/CANCEL (■)**
Press this button once to stop playing.
Pressing this button during a break in the PROGRAM MODE cancels the program displayed.

⓱ **PHONES**
Except for XL-M77BK
Plug the headphones into this jack for private listening.

⓲ **SEARCH (⏮) (Backwards)**
Press once (for approx. 1/2 second) during play to return the sensor to the start of the current selection. Press twice to return the sensor to the start of the previous selection. Each time this button is pressed, the sensor is moved backwards by one selection. Continue pressing this button to retrace your selections
SEARCH (⏭) (Forwards)
Press once (for approx. 1/2 second) during play to move the sensor to the start of the next selection.
Each time this button is pressed, the sensor moves forward one step. (When this button is pressed at the end of the last track the sensor moves to the first selection on the next CD disc.)
Continue pressing this button to progress through the programme.

⓳ **DISC**
for XL-M505TN/XL-M504BK
P : Push this button to play or program a disc on the SINGLE PLAY TRAY.
1~6 : Push these buttons to play or program discs in the magazine.
for XL-M405TN, XL-M404BK/XL-M77BK
DISC: Push this button to play or program a disc on the SINGLE PLAY TRAY or discs in the magazine.
Each time you press this key, the disc changes in the following order.
→ P → 1 → 2 → 3 → 4 → 5 → 6 →

MULTI-MODE DISPLAY



Pictorial indication of the disc status
The discs in the magazine, the disc being played currently, are pictorially displayed.

PLAY/PAUSE indicators
▶ : Lights during play
II : Lights in the pause mode

REPEAT
Lights when the repeat selection is ready
[ALL] : Lights up when "repeat play" of all selections is made.
[1] : Lights up when "repeat play" of one only selection is made.

EDITING indicators
Lights up during editing recording.
[A. EDIT]: Lights up during Auto Edit Recording.
[P. EDIT]: Lights up during Program Edit Recording.

TAPE SIDE indicators
SIDE [A] : Lights up when the A side of a tape is selected.
SIDE [B] : Lights up when the B side of a tape is selected.

PLAY MODE indicators
CONTINUE : Lights up in continuous play mode
PROGRAM : Lights up in programmed play mode
RANDOM : Lights up in random play mode

EACH/REMAIN
EACH : Shows the elapsed time for each selection.
REMAIN : Shows the remaining time during edit play.

Pictorial indication of the disc status
Shows the disc status on the single tray.

TRACK
Lights up when all the selections on the disc are shown
Shows either the programmed selection numbers, or the current selection number of the disc, during programmed play.

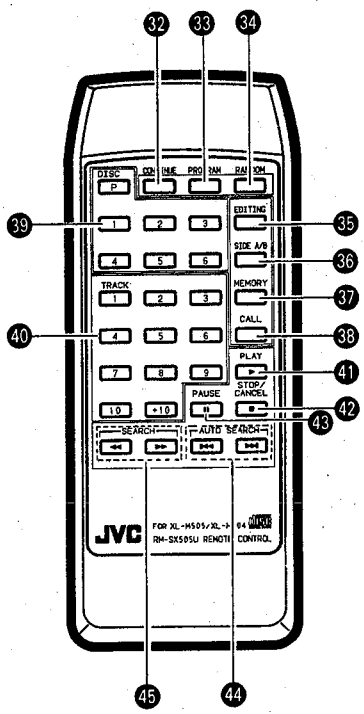
STEP
Shows the numbers of the memory steps corresponding with the programmed selections.
When the indicator "STEP" does not light, it shows the index number.

Time indicator (MINUTE)
Shows : the total playing time, elapsed playing time, or remaining playing time, in minutes.
(Shows nothing when the total number of selections is greater than 32).

Time indicator (SECONDS)
Shows : the total playing time, elapsed playing time, or remaining playing time, in seconds.

REMOTE CONTROL UNIT (For XL-M505TN / XL-M504BK only)

HOW TO OPERATE
Point the remote control unit towards the remote sensor on the front panel of the CD player-changer, always operating it steadily and carefully. If the remote-control unit is within about 7 metres of the CD player-changer, the CD player-changer can be operated comfortably. Do not point the remote unit at an angle to the remote sensor because this will reduce the distance from which you can control the unit.



32 CONTINUE
Press this button to select continuous play mode.
When this button is pressed, the CONTINUE indicator in the PLAY MODE indicator lights up.

33 PROGRAM
Press this button to select programmed play mode.
When this button is pressed, the PROGRAM indicator in the PLAY MODE indicator lights up.

34 RANDOM
Press this button for random play.
When this button is pressed, the RANDOM indicator in the MULTI-MODE DISPLAY lights up.

35 EDITING
Press this button to select edit recording mode.
Each time this button is pressed, the [A EDIT] or [P EDIT] indications appear, in sequence.

36 SIDE A/B
Press this button to select the tape side, when programming for edit recording.

37 MEMORY
Press this button to program selections.
See page 13 for further details.

38 CALL
This button is used to check programmed data.
While this button is pressed, the previously programmed disc, track and step numbers are indicated in the display, as from the first step.

39 DISC
Use these buttons to assign the disc numbers P, 1 to 6.

40 TRACK
This button is used to assign track numbers (range: 1-99) for a disc either to be played or programmed, and to set the edit time.
Whenever track numbers greater than 10 are to be assigned, use a combination of the [+10] button and [1] - [10] key numbered buttons.

[For Example]
17 : Press the [+10] button and [1] - [10] key operation number 7.
30 : Press the [+10] button twice and [1] - [10] key operation number 10.

41 PLAY (▶)
Press this button to begin play.

42 STOP/CANCEL (■)
Press this button to stop play.
This button is pressed when you wish to cancel the programmed selection displayed (see page 14).

43 PAUSE (II)
Press this button to stop play temporarily. To restart, press the [PLAY (▶)] button

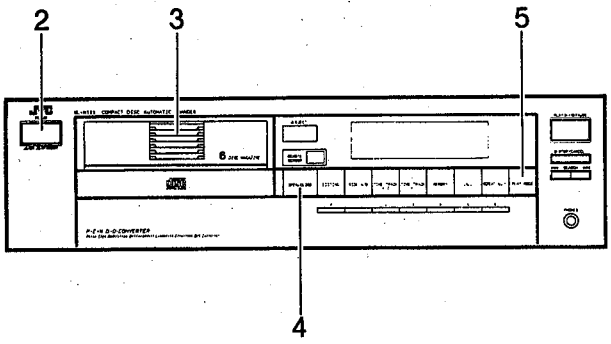
44 AUTO SEARCH
(⏮):Press this button to locate the start of the current selection, or else to return to the previous selection during play.
The track selected will retrace by one selection each time the button is pressed. If the button is held down, the track selected will retrace by one selection continuously until the button is released.
(⏭):Press this button, during play, to locate the next selection. Holding it down moves the pickup forward one selection continuously.

Please Note :
- *During programmed play mode, pressing the [AUTO SEARCH (⏮, ⏭)] buttons selects, respectively, the previous or next programmed step.*

45 SEARCH
(◀◀):Press this button, during play, to scan backwards. When this button is held down, the CD player-changer performs a backward search.
(▶▶):Press this button, during play, to scan forwards. When this button is held down, the CD player-changer performs a forward search.

HOW TO OPERATE

Preliminary Operation

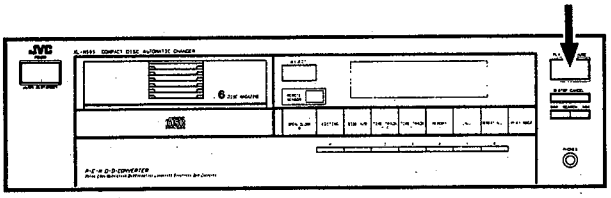


Up to seven discs can be played by using both the SINGLE PLAY TRAY and magazine.

1. Switch on and carry out any necessary adjustments to system components, such as the amplifier.
2. Switch on the CD player-changer. The MULTI-MODE DISPLAY lights up.
3. Insert the magazine, discs installed in, in the MAGAZINE SLOT. Push it gently until it clicks in place.
4. Install a disc on the SINGLE PLAY TRAY.
   - Press the [OPEN/CLOSE (≜)] button to slide the disc platter out.
   - With its label side up, load a disc on the disc tray.
   - Press the [OPEN/CLOSE (≜)] button to slide the disc platter in.
5. Press the [PLAYMODE] button to select playmode : CONTINUE, PROGRAM, RANDOM.

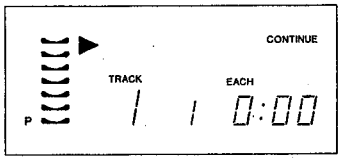
Continuous Play

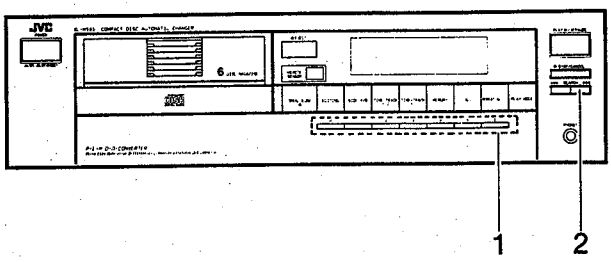
In CONTINUE mode, you may play any of the selections on any disc, to the final track on the DISC No.6, continuously.

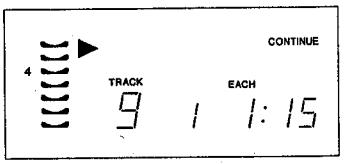


To Play from the First Selection

Press the [PLAY (▶)/PAUSE (⏸)] button.





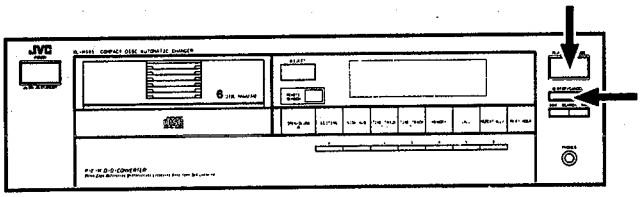


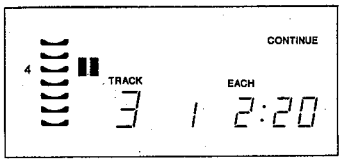
To Play from Any Desired Selection

1. Select the disc desired with the [DISC] button ⑬*.
2. Indicate the track number required with the [SEARCH (▶▶I)] button.

Please Note:
- *When the track number selected on a certain disc does not exist, play starts from the final selection on that disc.*
- *When the disc selected is not located in the magazine, the light for that disc (▬) in the MULTI-MODE DISPLAY goes out within about 4 seconds, then the play will start on the next disc.*

* Refer to P.6 ⑲





To Stop Play

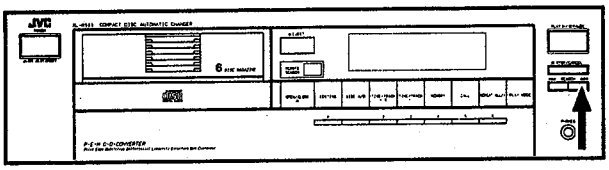
Press the [STOP (■)/CANCEL] button.

To Stop Play Temporarily

Press the [PLAY (▶)/PAUSE (⏸)] button.

To Continue Playing

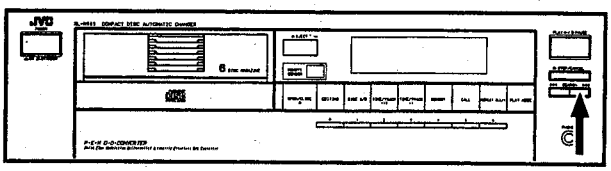
Press the [PLAY(▶)/PAUSE(⏸)] button again.



How to Operate the [SEARCH (I◀◀, ▶▶I)] button.

The button function changes if the button is held down.
If the button is pressed for:
less than 1/2 seconds - AUTO SEARCH
more than 1/2 seconds - slow traverse
more than 4 seconds - rapid traverse and replay of selection.

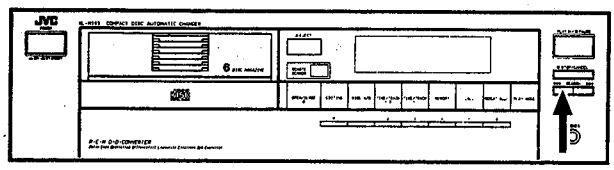
How to operate



To Skip to the Next Selection During Play

Press the [SEARCH (▶▶I)] button.

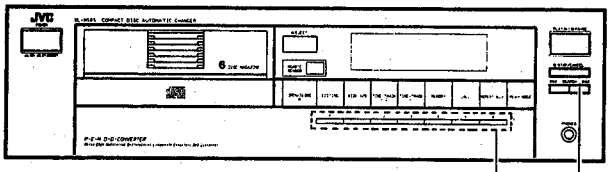
- Each time this button is pressed, the selection move forward one step.

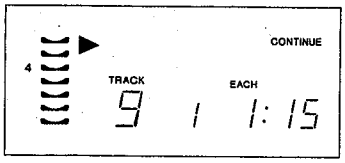


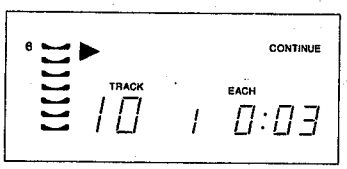
To Skip to the Previous Selection During Play

Press the [SEARCH (I◀◀)] button.

- Each time this button is pressed, the selection moved backwards one step.







To Switch Selections During Play

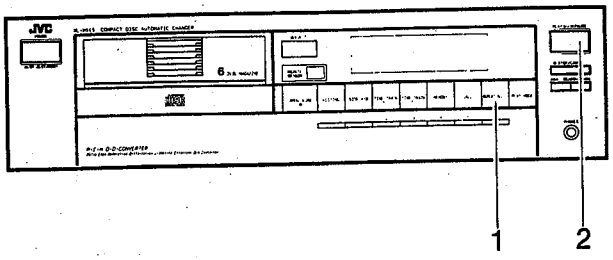
1. Choose the disc required, using the [DISC] button ⑲*.
2. Indicate the track number required, using the [SEARCH (▶▶I)] button.

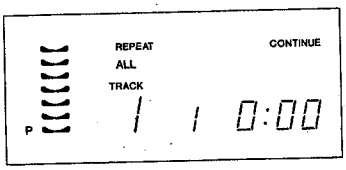
[Example]
Change the selection from the 9th selection of NO.4 disc to the 10th selection of NO.6 disc.

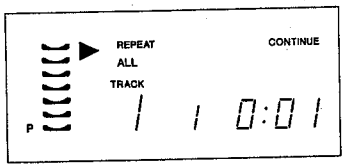
1. Indicate the disc number 6.
   Using the [DISC] button ⑲*.
   XL-M505TN/XL-M504BK
   Press the "6" button.
   XL-M405TN/XL-M404BK/XL-M77BK
   Press the "DISC" button 2 times.
2. Indicate the track number 10.
   Pressing the [SEARCH(▶▶I)] button 9 times.

* Refer to P.6 ⑲.

To Repeat the Whole Programme of Selections

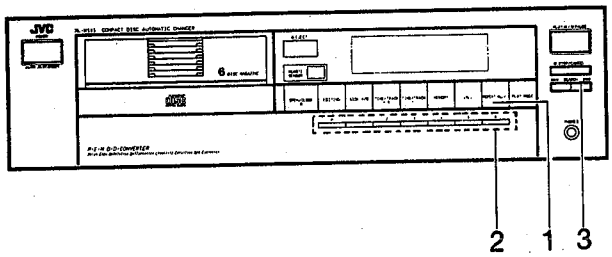


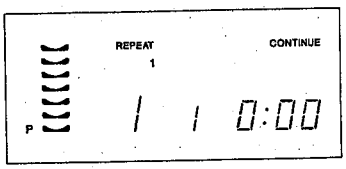


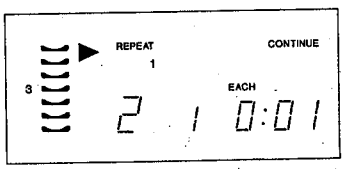


1. Press the [REPEAT] button once.
2. Press the [PLAY (▶)/PAUSE (⏸)] button.

To Repeat One Selection



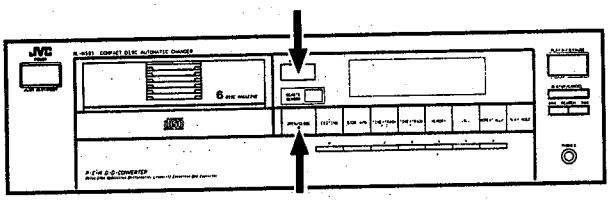




1. Press the [REPEAT] button twice.
2. Select the disc required with the [DISC] button ●*.
3. Indicate the selection number required with the [SEARCH (▶▶|)] button.

* Refer to P.6 ●.

To Remove the Disc or Magazine

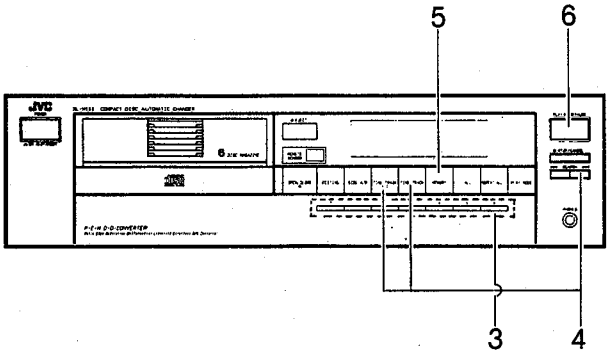


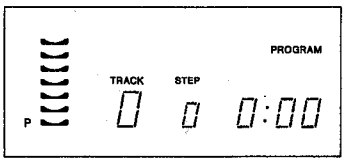
To remove a disc on the SINGLE PLAY TRAY, press the [OPEN/CLOSE (⏏)] button.
To remove the magazine, press the [EJECT (⏏)] button.

How to operate

Programmed Play

In PROGRAM mode 32 steps can be programmed to play in any desired order from the 7 discs loaded into the magazine and single play tray.





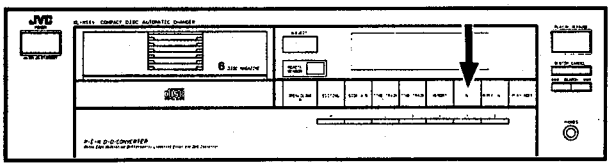
How to Program and Play

1. Press the [STOP (■)/CANCEL] button.
2. Press the [PLAY MODE] button to select the PROGRAM mode.
3. Press the [DISC] button ⑬* to select the disc required.
4. Select the track required with the [SEARCH (⏮, ⏭)] or [TIME/TRACK (+10, +1)] button.
   If the whole disc is to be played, carrying out this operation is unnecessary.
5. Press the [MEMORY] button while the step and track numbers are flashing.
   If the flashing is stopped return to the procedure 3.
   Repeat procedures 3, 4, and 5, above, to programme the tracks you require in sequence (a maximum of 32 steps are programmable)
6. Press the [PLAY (▶)/PAUSE (⏸)]. Play begins in the sequence programmed.

* Refer to P.6 ⑱

Please note:

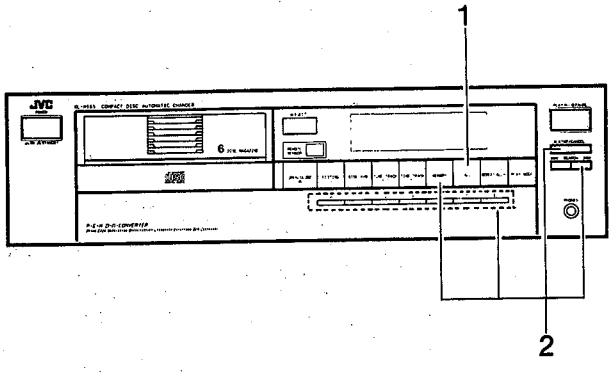
- *During programmed play pressing the [SEARCH (⏭)] button causes a skip to the next selection in the sequence programmed.*
- *To cancel the programmed play mode, press the PLAY MODE button until CONTINUE is displayed.*



How to Check the Programmed Selections

Each time the [CALL] button is pressed, both the disc number and the track number are displayed, in the MULTI-MODE DISPLAY, in the sequence programmed.

Please notes:
Checking the selections programmed is only possible when the disc is stationary.



How to Correct the Programmed Data

1. Press the [CALL] button, repeatedly, until the particular selection which needs to be corrected appears in the MULTI-MODE DISPLAY.
2.

— To delete a selection
- Press the [STOP (■)/CANCEL] button.

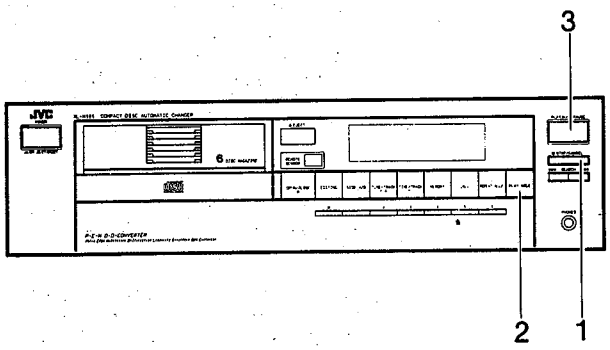
— To alter a selection.
- Press the [DISC] button ⑲* to select the appropriate disc.
- Press the [SEARCH (▶▶|)] buttons to indicate the required track number.
- Press the [MEMORY] button to store.

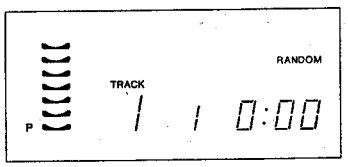
Notes:
- *If one of the programmed, selections are required, once remove the magazine and SINGLE PLAY TRAY using [EJECT(≜)] and [OPEN/CLOSE (≜)], then reset them.*

* Refer to P.6 ⑲.

Random Play

In RANDOM mode, the CD player-changer selects and plays tracks at random, from among the 7 discs in the magazine and the SINGLE PLAY TRAY.
- Selections can be made so that each track would be played only once.





1. Press the [STOP (■)/CANCEL] button.
2. Press the [PLAY MODE] button to select the RANDOM Mode.
3. Press the [PLAY (▶)/PAUSE (❚❚)] button to start random play.
   Press the [STOP (■)/CANCEL] button to stop random play.

Notes:
- *To cancel the RANDOM play mode, press the PLAY MODE button until CONTINUE is displayed.*
- *To continue the RANDOM play mode even when the selection use up all the tracks of all the disc, press the REPEAT button once to indicate "REPEAT ALL".*

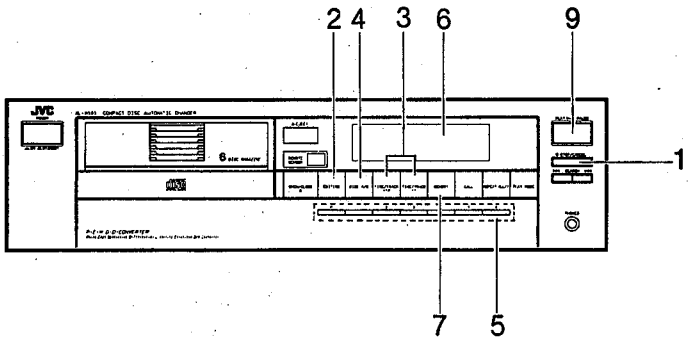
Editing

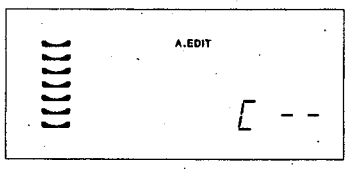
Auto Edit Recording
As much as possible of the selections chosen will be automatically recorded on the A and B sides of the cassette in sequence.

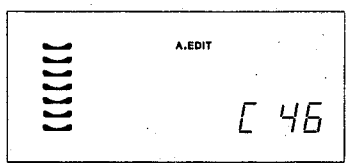
Programming Edit Recording
You can make your favorite selections from 7 CD and record them on cassette.

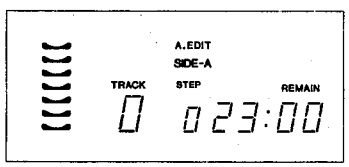
Notes:
- *To cancel the edit record mode, press the [PLAY MODE] button.*
- *The maximum program step is sixteen per one side of the tape.*
- *If your cassette deck is incorporating JVC's COMPU LINK system, synchronized recording feature will function.*

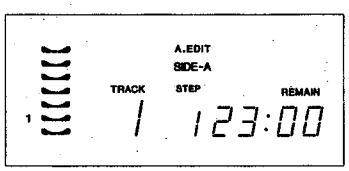
For further details, see "COMPU LINK CONTROL SYSTEM".
- *Tracks on a CD assigned number 32 or greater cannot be entered in the program.*



2


3


4


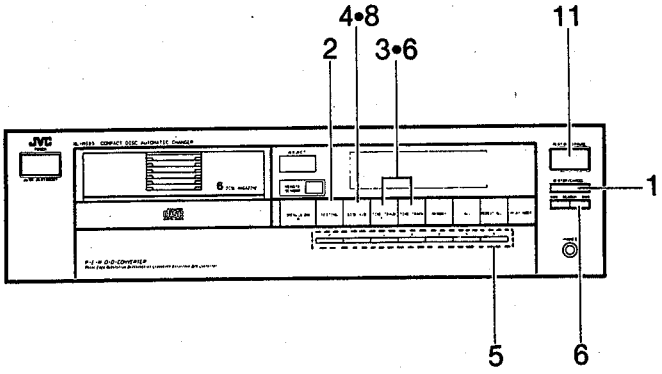
7


How to Perform Auto Edit Recording

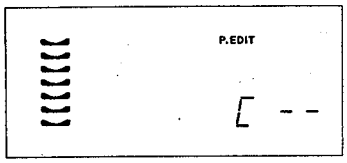
1. Press the [STOP (■)/CANCEL] button.
2. Press the [EDITING] button so that A EDIT is displayed in the MULTI-MODE DISPLAY.
3. Set the recording time according to the type of tape cassette loaded, using the [TIME/TRACK (+10, +1)] buttons.
   [Example]
   To set a period of 46 minutes, press the [+10] button four times and then the [+1] button six times.
4. Press the [SIDE A/B] button
5. Press the [DISC] button ⑲* to specify the disc required.
6. Total playing time appears in the MULTI-MODE DISPLAY.
7. Press the [MEMORY] button, while both the track number and the step number are flashing.
   If flashing stops before you press MEMORY button, press the [DISC] button ⑲* again.
8. Set the cassette deck to the recording mode.
9. Press the [PLAY (▶)/PAUSE (❚❚)] button.
   When the final selection, programmed on the A side, ends, CD player-changer stops automatically.
   To record on the other side of the tape, turn the tape over and repeat steps 8 and 9.

Note:
- *When starting editing from any particular selection of the disc, press the [SEARCH (⏮, ⏭)] button to indicate the selection and then press the [MEMORY] button, while both the track number and the step number are flashing.*
- *After proceeding step 7, remaining time appears to show the available recording time.*
  If you wish to record as much as the time displayed, perform steps 5~7.

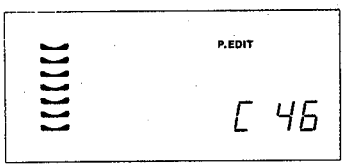
* Refer to P.6 ⑲.



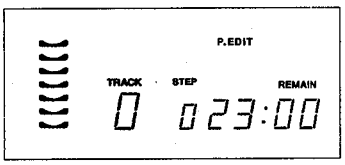
2



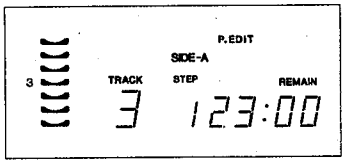
3



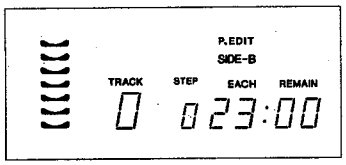
4



6



8



How to Perform Programming Edit Recording

1. Press the [STOP (■)/CANCEL] button.
2. Press the [EDITING] button until P EDIT is displayed in the MULTI-MODE DISPLAY.
3. Set the recording time according to the type of tape cassette loaded, using the [TIME/TRACK (+10, +1)] buttons.

   [Example]
   To set a period of 46 minutes, press the [+10] button four times and then the [+1] button six times.
4. Press the [SIDE A/B] button
5. Press the [DISC] button ⑲* to specify the disc required.
   Total playing time appears in the MULTI-MODE DISPLAY.
6. Press the [SEARCH (⏮, ⏭)] or [TIME/TRACK (+10, +1)] button to indicate the track number required and then press the [MEMORY] button, while both the track number and the step number are flashing.
   Once a selection has been programmed, its playing time is automatically subtracted from the set recording time and the time remaining is displayed.
7. Repeat steps 5 and 6 to programme.
8. When programming of the A side of the tape is completed, press the [SIDE A/B] button.
9. Repeat steps 5 and 6.
10. Set the cassette deck to the recording mode.
11. Press the [PLAY (▶)/PAUSE (⏸)] button.
    When the final selection, programmed on the A side, ends, CD player-changer stops automatically. To record on the other side of the tape, turn the tape over and repeat steps 10 and 11.

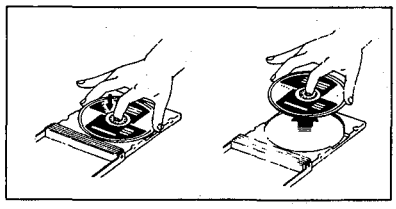
* Refer to P.6 ⑲

Notes:

- *When the record time programmed is greater than the set recording time, the excess time is indicated in the display while flashing.*
- *To delete a selection from program, call the particular selection with the [CALL] button and then press the [STOP/CANCEL (■)] button.*
  Enter the track number next to the last selection of the programmed sequence.

HANDLING COMPACT DISCS & THE MAGAZINE

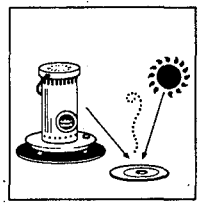
How to handle CDs



When handling compact discs, do not touch the surface of the disc (reflective silver side - the side without the label).

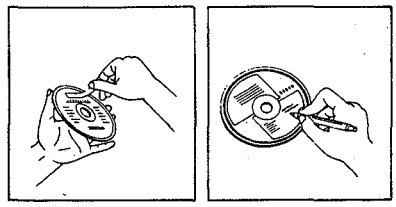
Since compact discs are made of plastic, they are easily damaged. If the disc gets dirty, dusty, scratched or warped, the sound will not be picked up correctly and, in addition, such discs may cause the CD player-changer to malfunction.

Storage

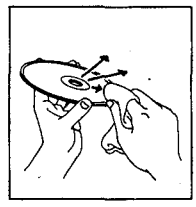


Make sure that the discs are kept in their cases.
If the discs are piled, one on top of another, without their protective cases, they can be damaged.
Do not put discs in any location where they can be exposed to direct sunlight - or in any place where the humidity or the temperature are high.
Avoid leaving discs in your car!

Maintenance of Discs



- Do not damage the label side, or stick paper to, or use any adhesive on this surface.



- When there are fingerprints or other dirt adhering to a disc, wipe the disc with a soft, dry cloth, with a movement going from the inside, outwards.
- If it is difficult to clean, wipe the disc with a cloth moistened with water.
- Never use record cleaners, petrol, alcohol or any anti-static agents.

Recommendations on handling the *magazine*

1. Always keep the magazine loaded with its six disc trays.
2. When removing or inserting the disc trays, the magazine should be held horizontal.
3. Only load the magazine with compact discs already located on disc trays. Never load a disc directly into the magazine without a disc tray.
4. Do not expose it to high temperatures or to direct sunlight.
5. Do not dismantle the magazine.
6. Take care not to drop or bang the magazine.
   Do not apply any high loadings to the disc trays, particularly when removed from the magazine.
7. Never apply such solvents as petrol or thinners, nor insecticide to the surfaces of the magazine or the disc trays. Such solvents may damage their surfaces.
8. If you wish to use 8cm (3") CDs, please obtain the special magazine (XC-M73), designed for these.

TROUBLESHOOTING

What appears to be malfunction may not always be serious. Go through the following list before requesting servise.

Sympton	Possible causes	Remedy
The magazine does not eject when the [EJECT (≜)] button is pressed.	• The power is off. • The magazine has not been inserted correctly.	• Press the [POWER] button and switch-on the power to the CD player changer. • Push the magazine all the way in and try pressing the [EJECT (≜)] button again.
When the operating buttons are pushed nothing happens.	• The operating controls are being pressed while the CD player changer was selecting a disc.	• Press the operating controls after the disc has been selected.
A selection on a CD was not played.	• A CD is missing. • A CD is upside-down.	• Load the missing CD. • Reload the CD, label-side up, on the disc tray.
Programming is not possible.	• The PROGRAM indicator is not switched on.	• Light the PROGRAM indicator by pressing the [PLAY MODE] button. Please see "How to Programme and Play", on page 13.
The sound is intermittent and difficult to listen to.	• The CD is dirty. • The CD is scratched. • The CD is warped.	• Wipe the surface of the CD with a soft, dry cloth. • Replace the damaged CD with a new one. • Replace the damaged CD with a new one.

SPECIFICATIONS

XL-M505TN/XL-M504BK/XL-M405TN/XL-M404BK

System

CD capacity	: 7 discs
Signal detection system	: Non-contact optical system pick-up
Number of channels	: 2 Channels
Frequency response	: 2Hz - 20kHz
Dynamic range	: 98dB
S/N	: 108dB at digital 0
Channel separation	: 94dB (1kHz)
Total harmonic distortion	: 0.0020% (1kHz)
Wow and flutter	: Below the measurable limit
Output level	: 2.0V rms (full scale)
Number of program steps	: 32 steps
Power consumption	: 18W
Line voltage & frequency	: AC 120V ∿ , 60Hz
Dimensions	: 435 (W)×128 (H)×319 (D) mm (17-3/16"×5"×12-9/16")
Weight	: 5.1kg (11.3lbs)
Accessories	: Magazine .....1 Remote cable (1m • 3.28ft).....1 Signal cord (1m • 3.28ft).....1 For XL-M505TN/XL-M504BK Remote control unit (RM-SX505U) .....1 Battery (UM-4 "AAA" R03 (1.5V)) .2

XL-M77BK

System

CD capacity	: 7 discs
Signal detection system	: Non-contact optical system pick-up
Number of channels	: 2 Channels
Frequency response	: 2Hz - 20kHz
Dynamic range	: 98dB
S/N	: 106dB at digital 0
Channel separation	: 94dB (1kHz)
Total harmonic distortion	: 0.0025% (1kHz)
Wow and flutter	: Below the measurable limit
Output level	: 2.0V rms (full scale)
Number of program steps	: 32 steps
Power consumption	: 18W
Line voltage & frequency	: AC 120V ∿ , 60Hz
Dimensions	: 435 (W)×119 (H)×319 (D) mm (17-3/16"×4-11/16"×12-9/16")
Weight	: 5.1kg (11.3lbs)
Accessories	: Magazine .....1 Remote cable (1m • 3.28ft).....1 Signal cord (1m • 3.28ft).....1

Design and specifications subject to change without notice.